

Computer Radar Interface Box (CRIB) and Radar Recorder (RRec) Product Sheet



Network Compatible

- ◆ Ethernet 10-mbps
- ◆ Re-transmits Radar data on Network (**Output**)
- ◆ Transmits Radar data messages as single or multiple radar data messages per packet
- ◆ Broadcasts UDP radar data Messages on network or LAN

CPU

- ◆ Motorola MPC823 50 Mhz. PowerPC RISC CPU
- ◆ ipEngine CPU BrightStar Engineering
<http://www.brightstareng.com>

CRIB Kit (contents)

- ◆ Convenient travel case
- ◆ Ethernet Crossover Cable
- ◆ Serial Cable
- ◆ Recording software
- ◆ USB Ethernet Network Adapter
- ◆ CRIB chassis (minus ipEngine CPU)
- ◆ External power supply
- ◆ CRIB and RRec How To Manuals

Recording Software

- ◆ Radar Recorder (**RRec**)
- ◆ Can record from multiple CRIBs simultaneously as in an ARTCC environment.
- ◆ Automated CRIB Configuration via serial connection
- ◆ Built-in TFTP and time servers
- ◆ Monitor or Record radar data
- ◆ Displays Statistics
- ◆ Automated recording mode (time based or filesize recordings) in circular and sequential modes (planned)
- ◆ Scheduler (planned)

Radar Channels

- ◆ Supports 6 serial Radar channels (**Input**)
- ◆ Supports 7 serial Radar channels (**Input**) for ASR-9 RMS
- ◆ Supports RS-232C, RS-422, and Balanced Interfaces

Radar / Digitizer Support

- ◆ CD-1/2, ATCBI-6, ARSR-3/4, ASR-9
- ◆ MAR and FPS117 support planned

Software

- ◆ Upgradable - Can be modified to support other applications e.g. TDIC
- ◆ Supports enhanced time resolution, Interfacility Receive (Transmit planned)



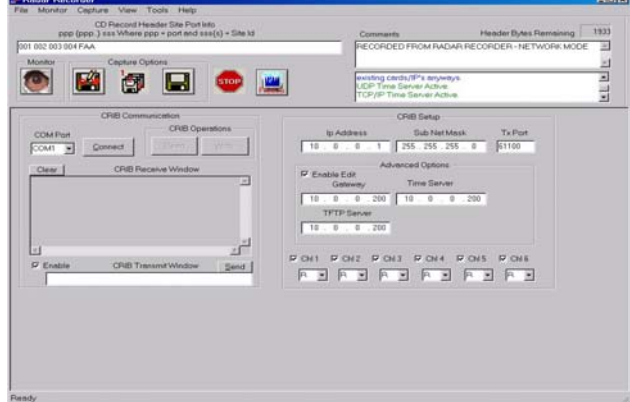
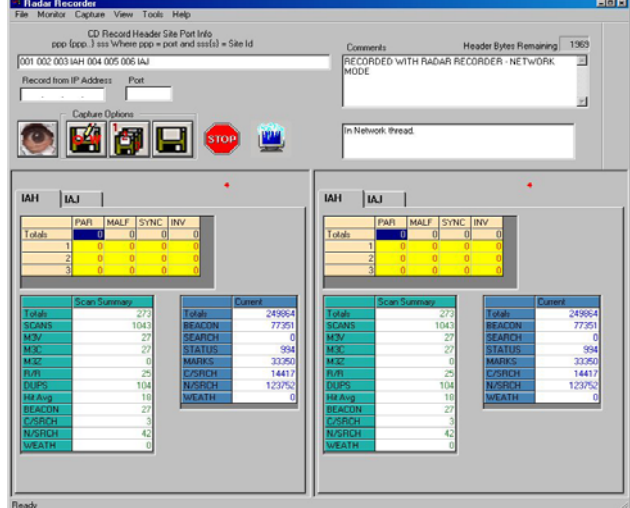
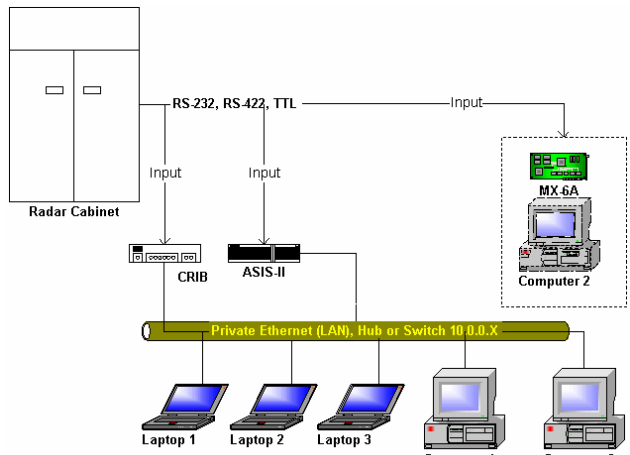
FPGA

- ◆ Flash Upgradable
- ◆ 16k Gates FPGA

Benefits

- ◆ Portability – Compact design (6.5" L x 5.5" W x 1.5" D) Pack with your laptop. Leave the lunch-box computer at home.
- ◆ CRIB Kit (travel case) is 13" L x 10.75" W x 2" D
- ◆ Software and firmware upgradable
- ◆ Hardware upgradable (FPGA limitations)
- ◆ Time Server/Client Support for accurate timestamping (RFC-868 Time Protocol), SNTP (RFC-2030) planned.
- ◆ Transmits Radar data on network in CD Record format minimizing software development complexity for recording applications
- ◆ 100% Hardware cable/connector compatible with MX-6A
- ◆ More than one PC can monitor and/or record radar data simultaneously

CRIB and Radar Recorder (RRec) Photos and Screen Shots

CRIB Front Panel	
CRIB Back Panel	
RRec CRIB Setup View	
RRec Statistics View in Dual View Mode	
Typical “Real World” Implementation	

Website:

<http://www.aos.tc.faa.gov/aos270/RDAS/CRIB/index.html>

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